



III. Gather Data

A. Ozone Eaters

- Click on the "Common Questions" site.

1. How is ozone distributed in the atmosphere?

2. What is the "ozone hole"?

3. Besides CFCs, what other molecules destroy ozone?

- Click "Back" to get back to the OAR Ozone Gather Data site.



B. Proof of Damage

- Click on the "Evidence" site.
- Look at the figure and answer the following question.

1. As the concentration of chlorine rises, what happens to the concentration of ozone?

- Click "Back" to get back to the OAR Ozone site.

C. Natural vs. Artificial

- Click on the "Chlorine Sources" site.

1. Since nature produces chlorine all the time, why do only artificially produced chlorine molecules cause trouble?

2. What percent of the chlorine in the stratosphere can be attributed to nature? _____

- Click "Back" to get back to the OAR Ozone Gather Data site.

- Click "Forward" at the bottom of the screen.

D. Total Ozone Loss



- Click on the "October Ozone Hole" site.
- Scroll down to the graph.
- 1. Compute the percentage of ozone in Antarctica in 1993 compared to the amount of ozone we had in October in 1957.
- Estimate the total ozone in 1957 and record it below.
_____ Dobson units
- Estimate the total ozone in 1993 and record it below.
_____ Dobson units
- Divide the 1993 value by the 1957 value.
- Move the decimal two places to the right to get the percentage of ozone that we have now.



- Click "Back" to get back to the OAR Ozone Gather Data site.

E. Sunburn Effects



- Click on the "Ultraviolet Radiation" site.
- 1. If the concentration of ozone decreases 30%, how much additional UV radiation will reach the surface of the earth?



- Click "Back" to get back to the OAR Ozone Gather Data site.

F. Future Outlook

- Click on the "Ozone Treaty" site.

1. What is expected to happen to the ozone layer during your lifetime?

- Click "Back" to get back to the OAR Ozone Gather Data site.

G. Unusual Suspect

- Click on the "Rural Ozone" site.

1. What problems are associated with ozone at ground level?

2. How are we producing ozone at ground level?

3. How can we decrease the ozone concentrations at ground level?

4. What changes in our lives can we make to reduce ozone concentrations at ground level?



- Click "Back" until you get back to the OAR Ozone site main screen.
- Click "Application."